What is claimed is:

1. A process for preparing 3-amino-4,4,4-trifluoro-crotonic esters of the formula (I) or the E/Z-isomers or tautomeric forms thereof

where

 R^1 and R^2 are each independently hydrogen, an optionally substituted linear C_1-C_4 -alkyl radical or an optionally substituted benzyl radical

and

 R^3 is methyl or ethyl, characterized in that

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a) an alkyl trifluoroacetate is reacted with an alkyl acetate of the formula $\text{CH}_3\text{-CO-OR}^3$ and an alkali metal alkoxide to give an enolate of a trifluoroacetoacetic ester of the formula (II)

(II)

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where M = Na or K

and R^3 is as defined above, and subsequently

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- b) allowing the alkali metal enolate of the trifluoroacetoacetic ester from stage a) without
 further purification is allowed to react
 directly with an amine of the formula NHR¹R²,
 where R¹ and R² are each as defined above, in
 the presence of an acid to give the 3-amino4,4,4-trifluorocrotonic ester.
- The process of claim 1, characterized in that the alkyl trifluoroacetates and alkyl acetates used
 are the corresponding methyl or ethyl esters.
- 3. The process of claim 1 or 2, characterized in that, in stage a), the molar ratio of alkyl trifluoroacetate to alkyl acetate is set to from 1:1 to 1:5.
 - 4. The process according to any of claims 1 to 3, characterized in that, from 0.9 to 3.0 mol of the alkali metal alkoxide are used per mole of alkyl trifluoroacetate.
- 5. The process of any of claims 1 to 4, characterized in that the alkali metal alkoxide used is sodium methoxide, sodium ethoxide, potassium methoxide or potassium ethoxide.
 - 6. The process of any of claims 1 to 5, characterized in that the reaction in stage a) is carried out at temperatures of from 0 to 100°C.
 - 7. The process of any of claims 1 to 6, characterized in that, on completion of stage a), excess alkyl acetate and/or alcohol is removed.

- 8. The process of any of claims 1 to 7, characterized in that the amine NHR^1R^2 is used in stage b) as a free base in anhydrous form.
- 5 9. The process of any of claims 1 to 7, characterized in that the amine NHR^1R^2 is used in stage b) in aqueous solution.
- 10. The process of any of claims 1 to 7, characterized in that the amine NHR¹R² is used in stage b) in the form of a salt selected from the group of hydrochloride, sulfate, nitrate, formate or acetate.
- 15 11. The process of any of claims 1 to 10, characterized in that the amine NHR¹R² used is ammonia, methylamine, ethylamine, benzylamine, dimethylamine or diethylamine, or a salt of these amines.
- 12. The process of any of claims 1 to 11, characterized in that from 1.0 to 10.0 mol, in particular from 1.1 to 4.0 mol, of amine are used per mole of alkyl trifluoroacetate.
- 13. The process of any of claims 1 to 12, characterized in that the acid is used in stage b) in an amount of from 1.0 to 10.0 mol per mole of alkyl trifluoroacetate.
- 30 14. The process of any of claims 1 to 13, characterized in that the acid used is acetic acid and/or hydrochloric acid.
- 35 15. The process of any of claims 1 to 14, characterized in that reaction stage b) is carried out at temperatures of from 20 to 200°C, in particular from 50 to 160°C.

16. The process of any of claims 1 to 15, characterized in that the water of reaction is removed continuously during the reaction of stage b).

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17. The process of any of claims 1 to 16, characterized in that the reaction of stage b) is carried out in the presence of an organic hydrocarbon as an azeotroping agent.

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- 18. The process of any of claims 1 to 17, characterized in that the azeotroping agent used is a solvent selected from the group of hexane, octane, cyclohexane, methylcyclohexane, benzene, toluene or the xylenes.
- 19. The process of any of claims 1 to 18, characterized in that the reaction mixture is worked up by extraction and subsequent distillation.
 - 20. The process of any of claims 1 to 19, characterized in that stages a) and b) are carried out successively in the same reaction vessel.